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**ABSTRACT OF THE DISCLOSURE**

A signal path control method is provided to carry out a signal path provision and auto protection in an optical transmission system. In the signal path control method in an optical transmission system according to the present invention, the path is provided and controlled by dividing the same into a subscriber service path for providing voice-oriented services as in the conventional art and a new subscriber service path for providing new high-speed/very high-speed data services, said. The new subscriber service path including includes a through path, add-drop path, ring add-drop path, east-west add-drop & through path and east-west add-drop & through path.